

Date Searched: 8/23/2007  
Databases Searched: USPAT, USPGPUB  
Plurals: ON  
Terms Searched:

- L1 (transistor or transistor) same (current near3 (source or driver))
  - L2 (current near3 (source or driver)) near15 (width or dimension or size)
  - L3 resist\$5
  - L4 (model\$3 or character\$8 or represent\$6) same 2
  - L5 2 and 3 and 4
  - L6 (716/1-18.ccls. or 703/2.ccls.) and 5 and @pd>"20070603"
- Results: 0 hit

- L7 (transistor or transistor) same (replac\$6 or substitut\$4 or represent\$6 or model\$3 or character\$8) same current
  - L8 current same (width or size or dimension)
  - L9 7 and 8
  - L10 (716/1-18.ccls. or 703/2.ccls.) and 9
  - L11 current same (distribut\$4 or aggregat\$4 or combin\$7 or total) same 8
  - L12 10 and 11
  - L13 3 and 12 and @pd>"20070603"
- Results: 4 hits

- L14 memory near2 array
  - L15 row same 14
  - L16 716/1-18.ccls. and 15
  - L17 (emf or em or migration or electro-migration or electromigration)
  - L18 16 and 17 and @pd>"20070603"
- Results: 0 hit

**\*\*Interference Search\*\***

Databases Searched: USPGPUB  
Plurals: ON  
Terms Searched:

- L1 ((transistor or transistor) near15(replac\$6 or substitut\$4 or represent\$6 or model\$3 or character\$8) near15 current and (current near15 (width or size or dimension)) and (current near5 (distribut\$4 or aggregat\$4 or combin\$7 or total))).clm.
- Results: 8 hits

Date Searched: 6/3/2007  
Databases Searched: USPAT, USPGPUB  
Plurals: ON  
Terms Searched:

- L1 (transistor or transistor) same (current near3 (source or driver))
  - L2 (current near3 (source or driver)) near15 (width or dimension or size)
  - L3 resist\$5
  - L4 (model\$3 or character\$8 or represent\$6) same 2
  - L5 2 and 3 and 4
  - L6 (716/1-18.ccls. or 703/2.ccls.) and 5 and @pd>"20070111"
- Results: 2 hits

- L7 (transistor or transistor) same (replac\$6 or substitut\$4 or represent\$6 or model\$3 or character\$8) same current
- L8 current same (width or size or dimension)
- L9 7 and 8

L10 (716/1-18.ccls. or 703/2.ccls.) and 9  
L11 current same (distribut\$4 or aggregat\$4 or combin\$7 or total) same 8  
L12 10 and 11  
L13 3 and 12 and @pd>"20070111"  
Results: 8 hits

L14 memory near2 array  
L15 row same 14  
L16 716/1-18.ccls. and 15  
L17 (emf or em or migration or electro-migration or electromigration)  
L18 16 and 17 and @pd>"20070111"  
Results: 1 hit

Date Searched: 1/11/2007  
Databases Searched: USPAT, USPGPUB  
Plurals: ON  
Terms Searched:

L1 (transistor or transistor) same (current near3 (source or driver))  
L2 (current near3 (source or driver)) near15 (width or dimension or size)  
L3 resist\$5  
L4 (model\$3 or character\$8 or represent\$6) same 2  
L5 2 and 3 and 4  
L6 (716/1-18.ccls. or 703/2.ccls.) and 5 and @pd>"20060612"  
Results: 5 hits

L7 (transistor or transistor) same (replac\$6 or substitut\$4 or represent\$6 or model\$3 or character\$8) same current  
L8 current same (width or size or dimension)  
L9 7 and 8  
L10 (716/1-18.ccls. or 703/2.ccls.) and 9  
L11 current same (distribut\$4 or aggregat\$4 or combin\$7 or total) same 8  
L12 10 and 11  
L13 3 and 12 and @pd>20060612  
Results: 13 hits

L14 memory near2 array  
L15 row same 14  
L16 716/1-18.ccls. and 15  
L17 (emf or em or migration or electro-migration or electromigration)  
L18 16 and 17 and @pd>20060612  
Results: 0 hit

Tamaki; Yoichi et al. US 7089525 B2 USPAT 716/12  
Eisenstadt; Robert et al. US 7080341 B2 USPAT 716/13

Date Searched: 6/12/2006  
Databases Searched: USPAT, USPGPUB  
Plurals: ON  
Terms Searched:

L1 (transistor or transistor) same (current near3 (source or driver))  
L2 (current near3 (source or driver)) near15 (width or dimension or size)  
L3 resist\$5  
L4 (model\$3 or character\$8 or represent\$6) same 2  
L5 2 and 3 and 4

Results: 1167 hits

L6 (716/1-18.ccls. or 703/2.ccls.) and 5

Results: 19 hits

L7 (transistor or transistor) same (replac\$6 or substitut\$4 or represent\$6 or model\$3 or character\$8) same current

L8 current same (width or size or dimension)

L9 7 and 8

L10 (716/1-18.ccls. or 703/2.ccls.) and 9

Results: 305 hits

L11 current same (distribut\$4 or aggregat\$4 or combin\$7 or total) same 8

L12 10 and 11

Results: 96 hits

L13 3 and 12

Results: 74 hits

L14 memory near2 array

L15 row same 14

L16 716/1-18.ccls. and 15

L17 (emf or em or migration or electro-migration or electromigration)

L18 16 and 17

Results: 10 hits

Fujine; Eiji US 6748572 B2

Sutherland; Ivan et al. US 6629301 B1

Yonezawa; Hirokazu et al. US 6219630 B1

Fujine, Eiji US 20020199160 A1

Mau, Hendrik T. et al. US 20040168136 A1

SHINOMIYA, NORIKO et al. US 20010049815 A1

Somayaji; Ananth G et al. US 7043705 B2

Narahara; Hidetoshi et al. US 7039572 B1

Kartschoke, Paul D. et al. US 20050278662 A1

Heydler, Thomas et al. US 20040015787 A1

Itazu; Kazushige et al. US 6405354 B1

Young; Duane J. et al. US 6038383 A

Yonezawa, Hirokazu US 20040261044 A1

Chatterjee, Amitava et al. US 20020083399 A1

Van Heijningen; Marc et al. US 6941258 B2

Mau; Hendrik T. et al. US 6880139 B2

AKINO, T et al. JP 09102608 A

Hassibi; Arash et al. US 6954921 B2

Colleran; David M. et al. US 6909330 B2

Yamaguchi; Kenji US 6735558 B1

Demler; Michael J. US 6637018 B1

King; Ken Richard et al. US 6286127 B1

Singh, Raminderpal et al. US 20050216873 A1

Yamaguchi, Kenji US 20040098681 A1

McGaughy; Bruce W. et al. US 6928626 B1

Rahmat; Khalid et al. US 20060031795 A1

Colleran, David M. et al. US 20040230408 A1

Hassibi, Arash et al. US 20040172609 A1

Mitsuhashi; Takashi US 5404310 A

Yamaguchi; Tetsuya US 6757873 B2

Pie; Charles Corey et al. US 6631506 B1

Chatterjee; Amitava et al. US 6598214 B2

Chandra; Rajit et al. US 6591402 B1

Misheloff; Michael N. et al. US 5461579 A

Sugasawara; Emery O. et al. US 6102962 A

Tamaki; Yoichi et al. US 6662344 B2  
Yasuda; Takeshi US 6330526 B1  
Jung, Chul M. US 20050081172 A1  
Bhamidipaty; Achyutram US 6874132 B1  
Djaja; Gregory et al. US 6405160 B1

Databases Searched: EPO, JPO, IBM TDB, Derwent

Plurals: ON

Terms Searched:

L1 (transistor or transistor) same (current near3 (source or driver))  
L2 (current near3 (source or driver)) near15 (width or dimension or size)  
L3 resist\$5  
L4 (model\$3 or character\$8 or represent\$6) same 1  
L5 2 and 3 and 4

Results: 22 hits

L6 (transistor or transistor) same (replac\$6 or substitut\$4 or represent\$6 or model\$3 or character\$8) same current

L7 current same (width or size or dimension)

L8 current same (distribut\$4 or aggregat\$4 or combin\$7 or total) same 7

L9 3 and 6 and 8

Results: 62 hits

JP 09102608 A DERWENT AKINO, T et al.

Databases Searched: IEE/IEEE Xplore

Terms Searched: (transistor or transistor) and (current <near/3> (source or driver)) and (width or dimension or size) and resist\* and (model\* or character\* or represent\*)

Results: Your search matched **2** of **1356463** documents

Terms Searched: (transistor or transistor) and (replac\* or substitut\* or represent\* or model\* or character\*) and current and (width or size or dimension) and (distribut\* or aggregat\* or combin\* or total) and resist\*

Results: Your search matched **32** of **1356463** documents

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L20	8	((transistor or transister) near15(replac\$6 or substitut\$4 or represent\$6 or model\$3 or character\$8) near15 current and (current near15 (width or size or dimension)) and (current near5 (distribut\$4 or aggregat\$4 or combin\$7 or total))).clm.	US-PGPUB	OR	ON	2007/08/23 16:29